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IN THE CLAIMS

This listing of the claim will replace all prior versions and listings of claim in the present application.

Listing of Claims

1. (currently amended) A substantially planar transformer comprising:
a plurality of windings and having an intermingled portion in which at least a portion of a first winding is intermingled with at least a portion of at least a second winding,

wherein each full turn of each winding in said intermingled portion is effected by one ~~self-crossing of said each winding over said each winding~~ and two crossings of said each winding over each of the other winding-windings having turns in said intermingled portion, and

wherein said transformer is included in an integrated circuit which includes a ground shield having a plurality of substantially radially extending fingers connected by a broken ring.

2. (original) A transformer according to claim 1, having a first winding and a second winding, both windings having the same number of turns, wherein the intermingled region comprises substantially the whole of both windings.

3. (original) A transformer according claim 1, having a first winding and a second winding, the first winding having a greater number of turns than the

second winding, wherein at least one of the excess turns of the first winding encompasses the intermingled region.

4. (original) A transformer according claim 1, having a first winding and a second winding, the first winding having a greater number of turns than the second winding, wherein at least one of the excess turns of the first winding is encompassed by the intermingled region.

5. (original) A transformer according to claim 1, having first, second and third windings.

6. (original) A transformer according to claim 5, having an intermingled region including turns of said first, second and third windings.

Claims 7-11 (canceled).

12. (currently amended)~~An integrated~~A transformer circuit according to claim 41, wherein the transformer has an intermingled region including turns of said first, second and third windings.

13. (currently amended)~~An integrated~~A transformer circuit according to claim 7~~1~~1, wherein the turns of said transformer ~~are~~are formed from a plurality of stacked conductive paths, the paths forming each winding being united by vias.

14. (currently amended)~~An integrated circuit~~A transformer circuit according to claim 13, wherein at least one of said crossings comprises first and second bridges between radially separated conductors, the bridges being between conductive paths in respective layers and crossing each other.

15. (currently amended)~~An integrated circuit~~A transformer circuit according to claim 14, wherein the first bridge is narrower than the second bridge and the first bridge and the second bridge have substantially the same resistance.

16. (currently amended)~~An integrated circuit~~A transformer according to claim 14, wherein, at said at least one of said crossings, the conductors in a layer which are not connected to a bridge also in that layer are chamfered to provide a terminal edge lying parallel to a side edge of the bridge in the same layer.

17. (currently amended)~~An integrated circuit~~a transformer according to claim 13, wherein uniting vias are located adjacent to said crossings.

18. (currently amended)~~An integrated circuit~~A transformer according to claim 14, including a lower conductor layer forming a capacitive shield at said crossings.

19. (currently amended)~~An integrated circuit~~A transformer according to claim 18, wherein said lower conductor layer does not contain any bridges and comprises two opposed pairs of parallel fingers terminating close together under each crossing.

Claims 20 and 21 (canceled).

22. (currently amended)~~An integrated circuit~~A transformer according to claim 21, wherein the broken ring is located inwards from the outer periphery of the ground shield such that the transformer's magnetic field is substantially parallel to the integrated circuit's surface at the broken ring.

Claim 23 (canceled).